SEQUENCE LISTING

<110> Von Der Kammer, Heinz
      Pohlner, Johannes

<120> Diagnostic and Therapeutic Use of FOAP-13 Polynucleotides and
      Polypeptides for Neurodegenerative Diseases

<130> 2335.0060001

<140> To be assigned
<141> Herewith

<150> 02019281.1
<151> 2002-08-28

<150> 60/406,303
<151> 2002-08-28

<160> 18

<170> PatentIn Ver. 2.1

<210> 1
<211> 390
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: cDNA fragment
      of the foap-13 gene

<400> 1
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cttggcctga ccctggtctg gtctcagaat cacttttccc atctgtaaaa ttgagatgaa 180
ttttggtgtt gaaagttctt cctggagcag atgtcctaga aggttttagg aatagtgaca 240
gagtcaggcc accccaaggg ccatgggagc cagctgacct gcttgaccga aggatttctg 300
acagactatc tttggggatg ttttcaagaa gggatataag ttatttactt tgggcattta 360
aaagaaaatt tctctcggga ataattttat   390

<210> 2
<211> 491
<212> PRT
<213> Homo sapiens

<400> 2
Met Ala Gly Gln Gly Leu Pro Leu His Val Ala Thr Leu Leu Thr Gly
 1   5   10   15

Leu Leu Glu Cys Leu Gly Phe Ala Gly Val Leu Phe Gly Trp Pro Ser
            20   25   30

Leu Val Phe Val Phe Lys Asn Glu Asp Tyr Phe Lys Asp Leu Cys Gly
        35   40   45

Pro Asp Ala Gly Pro Ile Gly Asn Ala Thr Gly Gln Ala Asp Cys Lys

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              50                      55                      60

Ala Gln Asp Glu Arg Phe Ser Leu Ile Phe Thr Leu Gly Ser Phe Met
65                  70                  75                  80

Asn Asn Phe Met Thr Phe Pro Thr Gly Tyr Ile Phe Asp Arg Phe Lys
                85                  90                  95

Thr Thr Val Ala Arg Leu Ile Ala Ile Phe Phe Tyr Thr Thr Ala Thr
            100                 105                 110

Leu Ile Ile Ala Phe Thr Ser Ala Gly Ser Ala Val Leu Leu Phe Leu
            115                 120                 125

Ala Met Pro Met Leu Thr Ile Gly Gly Ile Leu Phe Leu Ile Thr Asn
    130                 135                 140

Leu Gln Ile Gly Asn Leu Phe Gly Gln His Arg Ser Thr Ile Ile Thr
145                 150                 155                 160

Leu Tyr Asn Gly Ala Phe Asp Ser Ser Ser Ala Val Phe Leu Ile Ile
            165                 170                 175

Lys Leu Leu Tyr Glu Lys Gly Ile Ser Leu Arg Ala Ser Phe Ile Phe
            180                 185                 190

Ile Ser Val Cys Ser Thr Trp His Val Ala Arg Thr Phe Leu Leu Met
        195                 200                 205

Pro Arg Gly His Ile Pro Tyr Pro Leu Pro Pro Asn Tyr Ser Tyr Gly
    210                 215                 220

Leu Cys Pro Gly Asn Gly Thr Thr Lys Glu Glu Lys Glu Thr Ala Glu
225                 230                 235                 240

His Glu Asn Arg Glu Leu Gln Ser Lys Glu Phe Leu Ser Ala Lys Glu
            245                 250                 255

Glu Thr Pro Gly Ala Gly Gln Lys Gln Glu Leu Arg Ser Phe Trp Ser
            260                 265                 270

Tyr Ala Phe Ser Arg Arg Phe Ala Trp His Leu Val Trp Leu Ser Val
            275                 280                 285

Ile Gln Leu Trp His Tyr Leu Phe Ile Gly Thr Leu Asn Ser Leu Leu
    290                 295                 300

Thr Asn Met Ala Gly Gly Asp Met Ala Arg Val Ser Thr Tyr Thr Asn
305                 310                 315                 320

Ala Phe Ala Phe Thr Gln Phe Gly Val Leu Cys Ala Pro Trp Asn Gly
            325                 330                 335

Leu Leu Met Asp Arg Leu Lys Gln Lys Tyr Gln Lys Glu Ala Arg Lys
            340                 345                 350

Thr Gly Ser Ser Thr Leu Ala Val Ala Leu Cys Ser Thr Val Pro Ser
            355                 360                 365
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Leu Ala Leu Thr Ser Leu Leu Cys Leu Gly Phe Ala Leu Cys Ala Ser
    370             375             380

Val Pro Ile Leu Pro Leu Gln Tyr Leu Thr Phe Ile Leu Gln Val Ile
385             390             395             400

Ser Arg Ser Phe Leu Tyr Gly Ser Asn Ala Ala Phe Leu Thr Leu Ala
            405             410             415

Phe Pro Ser Glu His Phe Gly Lys Leu Phe Gly Leu Val Met Ala Leu
        420             425             430

Ser Ala Val Val Ser Leu Leu Gln Phe Pro Ile Phe Thr Leu Ile Lys
        435             440             445

Gly Ser Leu Gln Asn Asp Pro Phe Tyr Val Asn Val Met Phe Met Leu
    450             455             460

Ala Ile Leu Leu Thr Phe Phe His Pro Phe Leu Val Tyr Arg Glu Cys
465             470             475             480

Arg Thr Trp Lys Glu Ser Pro Ser Ala Ile Ala
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<210> 3
<211> 2630
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: cDNA of the
      human foap-13 gene

<400> 3
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ctcccgggga gctattggga tccagagaat caccgctga tggttttttcc ccaggcctga 180
aacaaccaga gagctacggg aaaggaaggg cttggcttgc cagaggaatt ttccaagtgc 240
tcaaacgcca ggcttacggc gcctgtgatc cgtccaggag gacaaagtgg gatttgaaga 300
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atagccttca cctctgcagg ctcagccgtg ctgctcttcc tggccatgcc aatgctcacc 720
attggggggaa tcctgtttct catcaccaac ctgcagattg gaacctatt tggccaacac 780
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aaggaagaga ccccaggggc agggcagaag caggaactcc gctccttctg gagctacgct 1140
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ctcttcattg gcactctcaa ctccttgctg accaacatgg ccggtgggga catggcacga 1260
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aaataaagac acacaaggac gtctgcgcag caagaaaaga atctcagttg ccaagcagat 1980
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<210> 4
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: one-base
      anchor oligonucleotide

<400> 4
htttttttttt tta   13

<210> 5
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: One-base
      anchor oligonucleotide

<400> 5
htttttttttt ttg   13

<210> 6
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: One-base
      anchor oligonucleotide

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<400> 6
httttttttt ttc                                                    13


<210> 7
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      foap-13 gene

<400> 7
tcaggtgaag agtgaggttg tca                                         23


<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      foap-13 gene

<400> 8
ggctgcactc ttgagggaga                                             20


<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      cyclophilin B gene

<400> 9
actgaagcac tacgggcctg                                             20


<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      cyclophilin B gene

<400> 10
agccgttggt gtctttgcc                                              19


<210> 11
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<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
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<400> 11
ggtcaaattt accctggcca                                            20


<210> 12
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      ribosomal protein S9

<400> 12
tctcatcaag cgtcagcagt tc                                         22


<210> 13
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      beta-actin gene

<400> 13
tggaacggtg aaggtgaca                                             19


<210> 14
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      beta-actin gene

<400> 14
ggcaagggac ttcctgtaa                                             19


<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
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GAPDH gene

<400> 15
cgtcatgggt gtgaaccatg   20

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      GAPDH gene

<400> 16
gctaagcagt tggtggtgca g   21

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      transferrin receptor (TRR)

<400> 17
gtcgctggtc agttcgtgat t   21

<210> 18
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for the
      transferrin receptor (TRR)

<400> 18
agcagttggc tgttgtacct ctc   23